

**GENERAL REVOCATION AND POWER OF ATTORNEY**  
**CERTIFICATE UNDER 37 CFR § 3.73(b)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

In accordance with 37 C.F.R. Section 1.36, M.P.E.P. Section 402.05 and 402.07, please revoke any existing Powers of Attorney, if any, in each of the patent applications identified on the attached Appendix, and appoint the attorneys and/or patent agents associated with the following Customer Number to prosecute each of the patent applications identified on the attached Appendix and to transact all business in the Patent and Trademark Office in connection therewith:

**Customer Number 57246**

Please direct all correspondence in this case to:

**Customer Number 57246**

**CERTIFICATE UNDER 37 CFR § 3.73(b)**

Broadcom Corporation hereby certifies that it is the assignee of the entire right, title and interest in each of the patent applications identified in the attached Appendix by virtue of an assignment from the inventor(s) filed and recorded at the Reel/Frame numbers, as noted in the attached Appendix. To the best of my knowledge and belief, title in each of the patent applications identified on the attached Appendix is in Broadcom Corporation, the assignee.

Pursuant to 37 C.F.R. §3.73(b), I hereby declare that I am empowered to sign this certificate on behalf of Broadcom Corporation, the assignee.

Date

2/20/09

By

Name:

Dee Henderson  
Director, Intellectual Property

**APPENDIX**

| DOCKET<br>NUMBER | SERIAL<br>NUMBER | TITLE  | FILING DATE | REF/FRAME   | INVENTORS                                    |
|------------------|------------------|--|-------------|-------------|--|
| 0063-002001      | 09/246,038       | SELF-ADJUSTING ELASTICITY DATA BUFFER WITH PRELOAD VALUE   | 05-FEB-1999 | 010009/0882 | CASTELLANO, ANDREW J.                        |
| 0063-003001      | 09/580,665       | APPARATUS FOR A NETWORK HUB TO DIAGNOSE NETWORK OPERATION AND BROADCAST INFORMATION TO A REMOTE HOST OR MONITORING DEVICE          | 26-MAY-2000 | 011088/0801 | CRAYFORD, IAN; RUNALDUE, THOMAS J.           |
| 0063-003002      | 12/289,194       | METHOD AND APPARATUS FOR NETWORK HUB TO DIAGNOSE NETWORK OPERATION AND BROADCAST INFORMATION TO A REMOTE HOST OR MONITORING DEVICE | 22-OCT-2008 | 011088/0901 | CRAYFORD, IAN; RUNALDUE, THOMAS J.           |
| 0063-004002      | 10/740,641       | APARATUS AND METHOD FOR OPTIMIZING ACCESS TO MEMORY  | 22-DEC-2003 | 011262/0400 | JOSEPH HERBST, ALLAN FLIPPIN                 |
| 0063-005002      | 11/130,187       | APPARATUS AND METHOD FOR MANAGING MEMORY IN A NETWORK SWITCH   | 17-MAY-2005 | 011265/0994 | JOSEPH HERBST                                |
| 0063-006001      | 09/599,938       | MEMORY MANAGEMENT UNIT FOR A NETWORK SWITCH  | 23-JUN-2000 | 011319/0566 | JOSEPH HERBST                                |
| 0063-006002      | 11/980,511       | MEMORY MANAGEMENT UNIT FOR A NETWORK SWITCH  | 31-OCT-2007 | 011319/0566 | JOSEPH HERBST                                |
| 0063-007001      | 09/461,719       | STACKED NETWORK SWITCH CONFIGURATION   | 16-DEC-1999 | 010469/0806 | MOHAN KALKUNTE, SHIRI KADAMBI, SHEKHAR AMBE  |
| 0063-007002      | 10/945,115       | STACKED NETWORK SWITCH CONFIGURATION   | 21-SEP-2004 | 010469/0806 | MOHAN KALKUNTE, SHIRI KADAMBI, SHEKHAR AMBE  |
| 0063-007003      | 10/979,105       | MIRRORING IN A STACKED NETWORK SWITCH CONFIGURATION  | 02-NOV-2004 | 011671/0456 | MOHAN KALKUNTE, ANDERS JOHNSON, SHEKHAR AMBE |
| 0063-008002      | 11/151,339       | METHOD FOR LOAD BALANCING IN A NETWORK SWITCH  | 14-JUN-2005 | 010847/0991 | SHIRI KADAMBI, MOHAN KALKUNTE, SHEKHAR AMBE  |
| 0063-009001      | 09/528,695       | NETWORK SWITCH MEMORY INTERFACE CONFIGURATION  | 17-MAR-2000 | 010851/0651 | SHIRI KADAMBI, SHEKHAR AMBE                  |
| 0063-009002      | 09/527,999       | NETWORK SWITCH HAVING A PROGRAMMABLE COUNTER   | 17-MAR-2000 | 010856/0255 | SHIRI KADAMBI, SHEKHAR AMBE                  |
| 0063-009003      | 09/528,001       | NETWORK SWITCH STACKING CONFIGURATION  | 17-MAR-2000 | 010851/0653 | SHIRI KADAMBI, SHEKHAR AMBE                  |
| 0063-009004      | 09/527,271       | METHOD FOR HANDLING MULICAST PACKETS IN NETWORK SWITCH   | 17-MAR-2000 | 010851/0657 | SHIRI KADAMBI, SHEKHAR AMBE                  |
| 0063-009005      | 10/795,259       | METHOD FOR HANDLING MULICAST PACKETS IN NETWORK SWITCH   | 09-MAR-2004 | 010851/0657 | SHIRI KADAMBI, SHEKHAR AMBE                  |

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|-------------|------------|--|-------------|-------------|---|
| 0063-009006 | 11/065,562 | NETWORK SWITCH HAVING A PROGRAMMABLE COUNTER   | 25-FEB-2005 | 010856/0255 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-010001 | 09/343,718 | METHOD FOR SENDING PACKETS BETWEEN TRUNK PORTS OF NETWORK SWITCHES   | 30-JUN-1999 | 010221/0652 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-010002 | 09/635,232 | METHOD OF SENDING PACKETS BETWEEN TRUNK PORTS OF NETWORK SWITCHES  | 09-AUG-2000 | 010221/0652 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-011002 | 09/642,104 | NETWORK SWITCHING ARCHITECTURE UTILIZING CELL BASED AND PACKET BASED PER CLASS-OF-SERVICE HEAD-OF-LINE BLOCKING PREVENTION | 09-AUG-2000 | 010221/0464 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-012002 | 09/983,157 | NETWORK SWITCHING ARCHITECTURE WITH FAST FILTERING PROCESSOR   | 23-OCT-2001 | 010292/0933 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-012003 | 11/219,663 | NETWORK SWITCHING ARCHITECTURE WITH FAST FILTERING PROCESSOR   | 07-SEP-2005 | 010292/0933 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-013001 | 11/698,860 | METHOD FOR MANAGING CONGESTION IN A NETWORK SWITCH   | 29-JAN-2007 | 010916/0536 | SHIRI KADAMBI, MOHAN KALKUNTE, SHEKHAR AMBE       |
| 0063-014001 | 11/433,387 | APPARATUS AND METHOD FOR ENABLING VOICE OVER IP SUPPORT FOR A NETWORK SWITCH   | 15-MAY-2006 | 011075/0397 | KAR-WING EDWARD LOR, MOHAN KALKUNTE, SHEKHAR AMBE |
| 0063-015001 | 09/642,917 | CLUSTER SWITCHING ARCHITECTURE   | 19-AUG-2000 | 011031/0515 | SHIRI KADAMBI, MOHAN KALKUNTE, SHEKHAR AMBE       |
| 0063-015002 | 11/905,054 | CLUSTER SWITCHING ARCHITECTURE   | 27-SEP-2007 | 011031/0515 | SHIRI KADAMBI, MOHAN KALKUNTE, SHEKHAR AMBE       |
| 0063-016001 | 09/985,763 | APPARATUS AND METHOD FOR SORTED TABLE BINARY SEARCH  | 06-NOV-2001 | 012299/0022 | PAUL KALAPATHY, MIKE JORDA                        |
| 0063-017003 | 11/495,739 | NETWORK SWITCHING ARCHITECTURE WITH MULTIPLE TABLE SYNCHRONIZATION, AND FORWARDING OF BOTH IP AND IPX PACKETS              | 31-JUL-2006 | 010221/0666 | SHIRI KADAMBI, SHEKHAR AMBE                       |
| 0063-018002 | 10/100,078 | HIGH PERFORMANCE SELF BALANCING LOW COST NETWORK SWITCHING ARCHITECTURE BASED ON DISTRIBUTED HIERARCHIAL SHARED MEMORY     | 19-MAR-2002 | 010221/0448 | SHIRI KADAMBI, SHEKHAR AMBE                       |

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|-------------|------------|---|-------------|---|---|
| 0063-019002 | 11/054,435 | ADDRESS RESOLUTION SNOOP<br>SUPPORT FOR CPU   | 10-FEB-2005 | 010948/0536   | GOVIND MALALUR                                |
| 0063-020002 | 10/993,491 | FLEXIBLE DMA DESCRIPTOR<br>SUPPORT  | 22-NOV-2004 | 010948/0552   | GOVIND MALALUR                                |
| 0063-021001 | 09/685,902 | APPARATUS AND METHOD FOR<br>SECURE FIELD UPGRADABILITY<br>WITH UNIQUE FACTORY<br>PROGRAMMED KEY                             | 11-OCT-2000 |   |   |
| 0063-021002 | 09/685,885 | APPARATUS AND METHOD FOR<br>SECURE FIELD UPGRADABILITY<br>WITH UNPREDICTABLE CIPHER<br>TEXT                                 | 11-OCT-2000 | 011223/0886   | ANDERS JOHNSON                                |
| 0063-021003 | 11/545,446 | APPARATUS AND METHOD FOR<br>SECURE FIELD UPGRADABILITY<br>WITH UNPREDICTABLE CIPHER<br>TEXT                                 | 11-OCT-2006 | 011223/0886   | ANDERS JOHNSON                                |
| 0063-022001 | 09/541,151 | INTEGRATED ETHERNET SWITCH  | 31-MAR-2000 |   |   |
| 0063-02200  | 11/245,102 | APPARATUS FOR ETHERNET<br>PHY/MAC COMMUNICATION   | 07-OCT-2005 | 010933/0517   | JOHN K. LENELL                                |
| 0063-023001 | 09/709,532 | HIGH SPEED FLOW CONTROL<br>METHADODOLOGY  | 13-NOV-2000 |   |   |
| 0063-024001 | 09/714,273 | TABLE LOOKUP MECHANISM FOR<br>ADDRESS RESOLUTION  | 17-NOV-2000 |   |   |
| 0063-025001 | 10/083,293 | SYSTEM AND METHOD FOR<br>MEASURING THE THICKNESS AND<br>TEMPERATURE OF A CIRCUIT IN A<br>PRINTED CIRCUIT BOARD              | 27-FEB-2002 | 012640/0764   | JAMES M. KRONROD                              |
| 0063-025002 | 10/805,232 | METHOD FOR DETERMINING PCB<br>PLANE THICKNESS AND<br>TEMPERATURE  | 22-MAR-2004 |   |   |
| 0063-026001 | 09/886,859 | METHOD AND APPARATUS FOR<br>REGULATING TRANSCEIVER<br>POWER CONSUMPTION FOR A<br>TRANSCEIVER IN A<br>COMMUNICATIONS NETWORK | 21-JUN-2001 | (ASSIGNMENT: 1-<br>011930/0483)<br><br>(ASSIGNMENT: -2-<br>012926/0062) | HOANG TAN TRAN, MARK<br>BERMAN                |
| 0063-027001 | 09/885,929 | SWITCH HAVING EXTERNAL<br>ADDRESS RESOLUTION<br>INTERFACE   | 22-JUN-2001 | 011928/0586   | MOHAN KALKUNTE, SHEKHAR<br>AMBE, SOMA PULLELA |

|             |            |  |             |             |   |
|-------------|------------|--|-------------|-------------|---|
| 0063-027002 | 11/490,181 | SWITCH HAVING EXTERNAL ADDRESS RESOLUTION INTERFACE        | 21-JUL-2006 | 011928/0586 | MOHAN KALKUNTE, SHEKHAR AMBE, SOMA PULLELA                    |
| 0063-028001 | 09/877,010 | GIGABIT SWITCH WITH FRAME FORWARDING AND ADDRESS LEARNING  | 11-JUN-2001 | 011892/0162 | SRINIVAS SAMPATH, MOHAN KALKUNTE, SHEKHAR AMBE, SHIRI KADAMBI |
| 0063-028002 | 09/877,016 | GIGABIT SWITCH WITH MULTICAST HANDLING                     | 11-JUN-2001 | 011892/0088 | SHEKHAR AMBE, MOHAN KALKUNTE                                  |
| 0063-028003 | 09/877,040 | GIGABIT SWITCH SUPPORTING MULTIPLE STACKING CONFIGURATIONS | 11-JUN-2001 | 011893/0775 | MOHAN KALKUNTE  |
| 0063-028004 | 09/877,011 | GIGABIT SWITCH WITH FAST FILTERING PROCESSOR               | 11-JUN-2001 | 011892/0080 | MOHAN KALKUNTE, SHEKHAR AMBE, SRINIVAS SAMPATH                |
| 0063-028005 | 09/877,014 | GIGABIT SWITCH SUPPORTING IMPROVED LAYER 3 SWITCHING       | 11-JUN-2001 | 011891/0036 | SHEKHAR AMBE, MOHAN KALKUNTE                                  |
| 0063-028006 | 09/877,069 | TRUNKING AND MIRRORING ACROSS STACKED GIGABIT SWITCHES     | 11-JUN-2001 | 011893/0969 | MOHAN KALKUNTE, SRINIVAS SAMPATH, SHEKHAR AMBE                |
| 0063-028007 | 09/877,013 | CASCADING OF GIGABIT SWITCHES                              | 11-JUN-2001 | 011892/0090 | MOHAN KALKUNTE, SHEKHAR AMBE                                  |
| 0063-028008 | 09/877,022 | FLEXIBLE HEADER PROTOCOL FOR NETWORK SWITCH                | 11-JUN-2001 | 011893/0824 | MOHAN KALKUNTE, SHEKHAR AMBE                                  |
| 0063-028009 | 11/312,496 | GIGABIT SWITCH WITH FRAME FORWARDING AND ADDRESS LEARNING  | 21-DEC-2005 | 011892/0162 | SRINIVAS SAMPATH, MOHAN KALKUNTE, SHEKHAR AMBE, SHIRI KADAMBI |
| 0063-028010 | 11/447,915 | CASCADING OF GIGABIT SWITCHES                              | 07-JUN-2006 | 011892/0090 | MOHAN KALKUNTE, SHEKHAR AMBE                                  |
| 0063-029001 | 09/841,189 | GIGABIT SWITCH ON CHIP ARCHITECTURE                        | 25-APR-2001 | 012009/0780 | GOVIND MALALUR, SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE   |
| 0063-029002 | 11/490,109 | GIGABIT SWITCH ON CHIP ARCHITECTURE                        | 21-JUL-2006 | 012009/0780 | GOVIND MALALUR, SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE   |

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|-------------|------------|---|-------------|-----------------------------|---|
| 0063-030001 | 09/931,754 | METHOD AND APPARATUS FOR FILTERING PACKETS BASED ON FLOWS USING ADDRESS TABLES              | 20-AUG-2001 | 012330/0866                 | MOHAN KALKUNTE, SHEKHAR AMBE, SHIRI KADAMBI   |
| 0063-031001 | 09/893,972 | HARDWARE ASSIST FOR ADDRESS LEARNING  | 29-JUN-2001 | 011956/0518                 | SRINIVAS SAMPATH, MOHAN KALKUNTE              |
| 0063-032001 | 09/883,213 | MEMORY MANAGEMENT UNIT ARCHITECTURE FOR SWITCH FABRIC                                       | 19-JUN-2001 | 011916/0574                 | JAMES BATTLE, DANIEL TAI                      |
| 0063-032002 | 09/883,381 | SWITCH FABRIC WITH MEMORY MANAGEMENT UNIT FOR IMPROVED FLOW CONTROL                         | 19-JUN-2001 | 011917/0080                 | JAMES BATTLE, DANIEL TAI                      |
| 0063-032003 | 10/430,424 | FRAME FORWARDING IN SWITCH FABRIC   | 07-MAY-2003 | 011916/0595                 | MOHAN KALKUNTE, SHEKHAR AMBE, SRINIVAS AMPATH |
| 0063-032004 | 11/402,068 | SWITCH FABRIC WITH MEMORY MANAGEMENT UNIT FOR IMPORVED FLOW CONTROL                         | 12-APR-2006 | 011917/0080                 | JAMES BATTLE, DANIEL TAI                      |
| 0063-033002 | 11/440,151 | METHODS AND CIRCUITS FOR POWER MANAGEMENT IN A TRANSCEIVER                                  | 25-MAY-2006 | (ASSIGNMENT 1-010809/0920)  | XI CHEN                                       |
| 0063-034001 | 09/953,881 | NETWORK SWITCH HAVING PORT BLOCKING CAPABILITY  | 18-SEP-2001 | (ASSIGNMENT: 2-015571/0985) | MOHAN KALKUNTE, SHEKHAR AMBE, SAM SAMPATH     |
| 0063-034001 | 11/790,906 | NETWORK SWITCH HAVING PORT BLOCKING CAPABILITY  | 27-APR-2007 | 012175/0257                 | MOHAN KALKUNTE, SHEKHAR AMBE, SAM SAMPATH     |
| 0063-035001 | 09/955,985 | METHOD AND APPARATUS FOR ENABLING L3 SWITCHING BY A NETWORK SWITC IN A STACKING ENVIRONMENT | 20-SEP-2001 | (ASSINGMENT1-012191/0557)   | SHEKHAR AMBE, MOHAN KALKUNTE                  |
| 0063-036001 | 09/863,318 | METHOD AND APPARATUS PF INTER-CHIP SHARED BY MSSAGE PASSING AND MEMORY ACCESS               | 24-MAY-2001 | (ASSINGMENT2-012182/0868)   | JASON FAN, MICHAEL SOKOL                      |
| 0063-036002 | 10/965,719 | SWITCH HAVING FLOW CONTROL MANAGEMENT   | 18-OCT-2004 | (ASSINGMENT1-011841/0539)   | JIANN-JYH (JAMES) LAY                         |
| 0063-037002 | 11/150,152 | SWITCH MEMORY MANAGEMENT USING A LINKED LIST STRUCTURE                                      | 13-JUN-2005 | (ASSINGMENT2-015571/0985)   | MICHAEL A. SOKOL                              |
|             |            |   |             | (ASSIGNMENT:1-011815/0976)  |   |
|             |            |   |             | (ASSIGNMENT:2-012186/0644)  |   |

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|             |            |   |             | (ASSIGNMENT:3-015571/0985)                                 |  |
| 0063-038002 | 11/889,741 | METHOD AND APPARATUS FOR REDUCING CLOCK SPEED AND POWER CONSUMPTION | 16-AUG-2007 | (ASSIGNMENT:1-011816/0093)                                 | MICHAEL CHANG, MICHAEL A. SOKOL                    |
| 0063-039001 | 09/956,020 | SWITCH ASSEMBLY HAVING MULTIPLE BLADES IN A CHASSIS                 | 20-SEP-2001 | (ASSIGNMENT:2-015571/0985)<br>012187/0957                  | MOHAN KALKUNTE, SHEKHAR AMBE                       |
| 0063-040001 | 09/943,238 | LINKED NETWORK SWITCH CONFIGURATION                                 | 31-AUG-2001 | (ASSIGNMENT:1-012138/0547)                                 | SHRJIE TZENG                                       |
| 0063-040002 | 12/219,907 | LINKED NETWORK SWITCH CONFIGURATION                                 | 30-JUL-2008 | (ASSIGNMENT:2-015571/0985)                                 |  |
| 0063-041002 | 11/006,563 | LINKED NETWORK SWITCH CONFIGURATION                                 | 08-DEC-2004 | 015571/0985  | SHRJIE TZENG                                       |
| 0063-042001 | 09/241,658 | BIT SLICE ARBITER   | 02-FEB-1999 | (ASSIGNMENT: 1-009759/0661)                                | JUN CAO  |
|             |            |   |             | (ASSIGNMENT: 2-010706/0304)                                |  |
| 0063-042002 | 10/759,454 | BIT SLICE ARBITER   | 20-JAN-2004 | (ASSIGNMENT: 3-011661/0313)<br>(ASSIGNMENT: 1-009759/0661) | JUN CAO  |
|             |            |   |             | (ASSIGNMENT: 2-010706/0304)                                |  |
| 0063-043003 | 10/635,465 | LOAD BALANCING IN LINK AGGREGATION AND TRUNKING                     | 07-AUG-2003 | (ASSIGNMENT: 3-011661/0313)<br>(ASSIGNMENT:1-009772/0091)  | DAVID WONG, CHENG-CHUNG SHIH, JUN CAO, WILLIAM DAI |
|             |            |   |             | (ASSIGNMENT:2-010700/0796)                                 |  |
| 0063-045001 | 09/650,260 | STARVATION FREE FLOW CONTROL IN A SHARED MEMORY SWITCHING DEVICE    | 29-AUG-2000 | (ASSIGNMENT:3-011660/0827)<br>011663/0315                  | YAO-CHING LIU, WILLIAM DAI, JASON CHAO             |
| 0063-045002 | 11/512,259 | STARVATION FREE FLOW CONTROL IN A SHARED MEMORY SWITCHING DEVICE    | 30-AUG-2006 | 011663/0315  | YAO-CHING LIU, WILLIAM DAI, JASON CHAO             |

|             |            |  |             |  |   |
|-------------|------------|--|-------------|--|---|
| 0063-046001 | 09/800,784 | METHOD AND APPARATUS FOR HIGH SPEED TABLE SEARCH   | 08-MAR-2001 | 011600/0233  | DENNIS SUNGIK LEE, MICHAEL VENG-CHONG LAU, PEI-FENG ADRIAN WANG ET AL |
| 0063-046002 | 10/750,960 | METHOD AND APPARATUS FOR HIGH SPEED TABLE SEARCH   | 05-JAN-2004 | 011600/0233  | DENNIS SUNGIK LEE, MICHAEL VENG-CHONG LAU, PEI-FENG ADRIAN WANG ET AL |
| 0063-047001 | 09/526,102 | METHOD AND APPARATUS FOR SHARED BUFFER PACKET SWITCHING  | 15-MAR-2000 | (ASSIGNMENT: 1-010929/0922)<br>(ASSIGNMENT: 2-011663/0283) | CHUEN-SHEN BERNARD SHUNG  |
| 0063-047002 | 10/703,523 | METHOD AND APPARATUS FOR SHARED BUFFER PACKET SWITCHING  | 10-NOV-2003 | ASSIGNMENT: 1-010929/0922)<br>(ASSIGNMENT: 2-011663/0283   | CHUEN-SHEN BERNARD SHUNG  |
| 0063-048001 | 09/794,948 | SWITCH USING A SEGMENTED RING  | 28-FEB-2001 | 011890/0367  | JUN CAO, WILLIAM DAI, YONGBUM KIM                                     |
| 0063-049001 | 09/861,745 | METHOD AND APPARATUS FOR PERFORMING A BINARY SEARCH OF AN EXPANDED TREE                            | 22-MAY-2001 | 011850/0393  | JUN CAO, BRANDON CARL SMITH, ERIC NG                                  |
| 0063-049002 | 10/937,321 | METHOD AND APPARATUS FOR PERFORMING A BINARY SEARCH OF AN EXPANDED TREE                            | 10-SEP-2004 | 011850/0393  | JUN CAO, BRANDON CARL SMITH, ERIC NG                                  |
| 0063-050001 | 11/416,108 | METHOD AND APPARATUS FOR PERFORMING DIAGNOSTIC TESTS USING AN ASSISTING TRANSCEIVER                | 03-MAY-2006 | 012657/0176  | SANG T. BUI   |
| 0063-051001 | 10/082,077 | EFFICIENT OPTIMIZATION ALGORITHM IN MEMORY UTILIZATION FOR NETWORK APPLICATIONS                    | 26-FEB-2002 | 012634/0562  | SHIH-HSIUNG NI  |
| 0063-052001 | 09/982,926 | ALGORITHM FOR TIME BASED QUEUEING IN A NETWORK TRAFFIC ENGINEERING                                 | 22-OCT-2001 | 012282/0262  | SHIH-HSIUNG NI  |
| 0063-053001 | 10/083,591 | BINARY SEARCH IN FOUR PARALLEL BANKS   | 27-FEB-2002 | (ASSIGNMENT:1-012644/0508)<br>(ASSIGNMENT:2-015537/0940)   | JONATHAN LIN, DAVID BILLINGS, MIKE JORDA                              |
| 0063-054001 | 10/090,797 | POINTER BASED BINARY SEARCH ENGINE AND METHOD FOR USE IN NETWORK DEVICES                           | 06-MAR-2002 | 012671/0799  | JONATHAN LIN, SOMAYAJULU S.K. PULLELA, DAVID BILLINGS                 |
| 0063-055001 | 10/083,594 | SYSTEM AND METHOD FOR SLOT BASED ARL TABLE LEARNING WITH CONCURRENT TABLE SEARCH USING WRITE SNOOP | 27-FEB-2002 | 012661/0097  | JONATHAN LIN, DAVID BILLINGS  |



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|-------------|------------|--|-------------|-------------|---|
| 0063-056001 | 10/083,132 | SYSTEM AND METHOD FOR SLOT BASED ARL TABLE LEARNING AND CONCURRENT TABLE SEARCH USING RANGE ADDRESS INSERTION BLOCKING | 27-FEB-2002 | 012638/0150 | JONATHAN LIN, DAVID BILLINGS  |
| 0063-057001 | 10/098,337 | NETWORK INTERFACE USING PROGRAMMABLE DELAY AND FREQUENCY DOUBLER   | 18-MAR-2002 | 012705/0612 | JONATHAN LIN, YONG JIANG  |
| 0063-058001 | 10/083,291 | NETWORK INTERFACE WITH DOUBLE DATA RATE AND DELAY LOCKED LOOP  | 27-FEB-2002 | 012643/0136 | JONATHAN LIN, YONG JIANG  |
| 0063-059001 | 10/084,365 | VOLTAGE MODE DIFFERENTIAL DRIVER AND METHOD  | 28-FEB-2002 | 012642/0559 | NING LI, JIANN-CHYI (SAM) SHIEH   |
| 0063-059002 | 10/747,310 | VOLTAGE MODE DIFFERENTIAL DRIVER AND METHOD  | 30-DEC-2003 | 012642/0559 | NING LI, JIANN-CHYI (SAM) SHIEH   |
| 0063-060001 | 09/982,794 | DATA PATH OPTIMIZATION ALGORITHM   | 22-OCT-2001 | 012277/0485 | SHIH-HSIUNG NI  |
| 0063-061001 | 10/101,056 | WIDE COMMON MODE DIFFERENTIAL INPUT  | 20-MAR-2002 | 012714/0560 | NING LI, JIANN-CHYI SAM SHIEH   |
| 0063-061002 | 10/804,169 | WIDE COMMON MODE DIFFERENTIAL INPUT AMPLIFIER AND METHOD   | 19-MAR-2004 | 012714/0560 | NING LI, JIANN-CHYI SAM SHIEH   |
| 0063-062001 | 09/970,650 | METHOD AND APPARATUS FOR ENABLING ACCESS ON A NETWORK SWITCH   | 05-OCT-2001 | 012234/0734 | KAR-WING EDWARD LOR   |
| 0063-063001 | 10/173,422 | SELECTIVE FLOW CONTROL BASED ON MULTIPLE VIRTUAL CHANNELS  | 18-JUN-2002 | 013023/0887 | SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE, SANDEEP RELAN, ALLAN CHRISTIE, URI ELZUR ET AL |
| 0063-063002 | 11/806,427 | SELECTIVE FLOW CONTROL BASED ON MULTIPLE VIRTUAL CHANNELS  | 31-MAY-2007 | 013023/0887 | SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE, SANDEEP RELAN, ALLAN CHRISTIE, URI ELZUR ET AL |
| 0063-064001 | 10/079,576 | ADAPTABLE SWITCH ARCHITECTURE THAT IS INDEPENDENT OF MEDIA TYPES   | 22-FEB-2002 | 012618/0914 | SHIRI KADAMBI, SHEKHAR AMBE, SANDEEP RELAN  |
| 0063-065001 | 10/173,421 | FLOW BASED CONGESTION CONTROL  | 18-JUN-2002 | 013022/0227 | SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE, SANDEEP RELAN                                  |

|             |            |   |             |             |  |
|-------------|------------|---|-------------|-------------|--|
| 0063-065002 | 11/727,614 | FLOW BASED CONGESTION CONTROL   | 27-MAR-2007 | 013022/0227 | SHIRI KADAMBI, SHEKHAR AMBE, MOHAN KALKUNTE, SANDEEP RELAN |
| 0065-066001 | 10/090,845 | AN OPTIMIZED DATA PATH STRUCTURE FOR MULTI-CHANNEL MIB EVENT-GENERATION             | 06-MAR-2002 | 012672/0748 | SHIH-HSIUNG NI   |
| 0063-067001 | 10/121,712 | TITLE NOT MATCHING<br>ROBUST AND SCALABLE DE-SKEW METHOD FOR DATA PATH SKEW CONTROL | 15-APR-2002 | 012796/0045 | JOHN MING YUNG CHIANG                                      |
| 0063-067002 | 11/637,001 | ROBUST AND SCALABLE DE-SKEW METHOD FOR DATA PATH SKEW CONTROL                       | 12-DEC-2006 | 012796/0045 | JOHN MING YUNG CHIANG                                      |
| 0063-068001 | 10/119,074 | FLEXIBLE APPARATUS FOR SETTING CONFIGURATIONS USING AN EEPROM                       | 10-APR-2002 | 012787/0130 | WEN-CHENG TSENG, HSIN-MIN YEH                              |
| 0063-068002 | 10/805,233 | A NETWORK DEVICE HAVING A FLEXIBLE EEPROM FOR SETTING CONFIGURATION SETTINGS        | 22-MAR-2004 | 012787/0130 | WEN-CHENG TSENG, HSIN-MIN YEH                              |
| 0063-069001 | 10/171,573 | HIGIG PROTOCOL FOR INTERCONNECTING MODULAR STRUCTURES                               | 17-JUN-2002 | 013017/0280 | SRINIVAS SAMPATH, MOHAN KALKUNTE                           |
| 0063-070001 | 10/076,367 | METHOD AND APPARATUS FOR FLEXIBLE FRAME PROCESSING AND CLASSIFICATION ENGINE        | 19-FEB-2002 | 012603/0620 | DENNIS S. LEE, YONGBUM KIM, HYUNGWON KIM                   |
| 0063-071001 | 10/180,509 | METHOD AND SYSTEM FOR RATE ADAPTATION   | 27-JUN-2002 | 013048/0729 | DAVID WONG   |
| 0063-071002 | 12/213,832 | METHOD AND SYSTEM FOR RATE ADAPTATION   | 25-JUN-2008 | 013048/0729 | DAVID WONG   |
| 0063-071003 | 10/180,510 | SYSTEM AND METHOD FOR ISOLATING NETWORK CLIENTS                                     | 27-JUN-2002 | 013046/0386 | DAVID WONG   |
| 063071004   | 10/292,697 | SYSTEM AND METHOD OF A MANAGEMENT INFORMATION BASE AUTOCAST IN A DATA NETWORK       | 13-NOV-2002 | 013489/0120 | DAVID WONG   |
| 0063-071005 | 10/183,637 | SELECTIVE EARLY DROP METHOD AND SYSTEM  | 28-JUN-2002 | 013052/0274 | DAVID WONG   |

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| 0063-072001 | 10/090,844 | ADAPTIVE FLOW CONTROL METHOD AND APPARATUS  | 06-MAR-2002 | 012671/0830  | YI-HSIEN HAO                               |
| 0063-072002 | 11/020,114 | ADAPTIVE FLOW CONTROL METHOD AND APPARATUS  | 27-DEC-2004 | 012671/0830  | YI-HSIEN HAO                               |
| 0063-073002 | 10/351,487 | SCALABLE PACKET FILTER FOR A NETWORK DEVICE   | 27-JAN-2003 | 013708/0965  | SRINIVAS SAMPATH, MOHAN KALKUNTE           |
| 0063-074001 | 10/247,298 | IP MULTICAST PACKET REPLICATION PROCESS AND APPARATUS THEREFORE                       | 20-SEP-2002 | 013310/0978  | LAXMAN SHANKAR                             |
| 0063-075001 | 10/683,465 | FAST AND SLOW PATH MULTIMEDIA LOOKUP METHOD AND APPARATUS                             | 14-OCT-2003 | 014928/0152  | AIDAN O'ROURKE                             |
| 0063-076002 | 11/063,868 | FAST FLEXIBLE FILTER PROCESSOR BASED ARCHITECTURE FOR A NETWORK DEVICE                | 23-FEB-2005 | 013205/0094  | SHEKHAR AMBE, SHIRI KADAMBI, SANDEEP RELAN |
| 0063-077002 | 11/702,578 | AN EFFICIENT METHOD TO PARSE SPI-4 DATA STREAMS                                       | 06-FEB-2007 | 013283/0783  | NGOK YING CHU, JOHN M. CHIANG              |
| 0063-078001 | 10/269,989 | A METHOD AND APPARATUS UTILIZING A TAIL BUS TO SOLVE BACK-TO-BACK DATA BURST PROBLEMS | 15-OCT-2002 | 013389/0353  | NGOK YING CHU, JOHN M. CHIANG              |
| 0063-079001 | 10/377,664 | FASTPATH IMPLEMENTATION FOR TRANSPARENT LAN SERVICES OVER MPLS                        | 04-MAR-2003 | 013837/0058  | LAXMAN SHANKAR, SHEKHAR AMBE               |
| 0063-080002 | 11/802,386 | FLOW CLASSIFICATION RULES COMBINATION   | 22-MAY-2007 | 013376/0293  | LAXMAN SHANKAR                             |
| 0063-081001 | 10/247,299 | TWO STAGE EGRESS SCHEDULER  | 20-SEP-2002 | 013310/0683  | LAXMAN SHANKAR, SHEKHAR AMBE               |
| 0063-082001 | 10/351,520 | WEIGHTED FAIR QUEUING (WFQ) SHAPER  | 27-JAN-2003 | 013708/0180  | LAXMAN SHANKAR, SHEKHAR AMBE               |
| 0063-082002 | 10/351,492 | SHARED WEIGHTED FAIR QUEUING (WFQ) SHAPER   | 27-JAN-2003 | (ASSIGNMENT: 1-013708/0989)<br>(ASSIGNMENT: 2-013789/0698) | LAXMAN SHANKAR, SHEKHAR AMBE               |

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| 0063-083001 | 10/212,211 | PACKET FILTERING BASED ON PORT BIT MAP  | 06-AUG-2002 | 013178/0176  | SHEKHAR AMBE, SANDEEP KUMAR RELAN                        |
| 0063-084001 | 10/358,222 | FAST PATH IMPLEMENTATION FOR TRANSPARENT LAN SERVICES USING DOUBLE TAGGING                            | 05-FEB-2003 | 013743/0344  | LAXMAN SHANKAR, SHEKHAR AMBE                             |
| 0063-085001 | 10/245,289 | PER COS MEMORY PARTITIONING   | 18-SEP-2002 | 013299/0871  | LAXMAN SHANKAR, SHEKHAR AMBE                             |
| 0063-085002 | 11/518,277 | PER COS MEMORY PARTITIONING   | 11-SEP-2006 | 013299/0871  | LAXMAN SHANKAR, SHEKHAR AMBE                             |
| 0063-086001 | 10/378,937 | FAST PATH IMPLEMENTATION FOR AN UPLINK DOUBLE TAGGING ENGINE  | 05-MAR-2003 | 013834/0743  | LAXMAN SHANKAR, SHEKHAR AMBE, SONG-HUO YU                |
| 0063-087001 | 10/163,361 | AN ACROSS-DEVICE COMMUNICATION PROTOCOL   | 07-JUN-2002 | (ASSIGNMENT: 1-1012978/0123)                               | SHRJIE TZENG, YI-HSIEN HAO                               |
| 0063-088001 | 10/163,363 | FAIRNESS SCHEME METHOD AND APPARATUS FOR PAUSE CAPABLE AND PAUSE INCAPABLE PORTS                      | 07-JUN-2002 | (ASSIGNMENT: 2-015571/0985)<br>(ASSIGNMENT: 1-012978/0115) | SHRJIE TZENG, YI-HSIEN HAO                               |
| 0063-088002 | 12/222,291 | FAIRNESS SCHEME METHOD AND APPARATUS FOR PAUSE CAPABLE AND PAUSE INCAPABLE PORTS                      | 06-AUG-2008 | (ASSIGNMENT: 2-015571/0985)<br>(ASSIGNMENT: 1-012978/0115) | SHRJIE TZENG, YI-HSIEN HAO                               |
| 0063-089002 | 11/898,265 | DYNAMIC ADJUST MULTICAST DROP THRESHOLD TO PROVIDE FAIR HANDLING BETWEEN MULTICAST AND UNICAST FRAMES | 11-SEP-2007 | (ASSIGNMENT: 2-015571/0985)<br>(ASSIGNMENT: 1-012985/0559) | SHRJIE TZENG, YI-HSIEN HAO                               |
| 0063-091002 | 10/894,126 | SELF-REPAIRING BUILT-IN-SELF-TEST FOR LINKED LIST MEMORIES  | 20-JUL-2004 | 013437/0943  | HYUNG WON KIM, CHUEN-SHEN SHUNG                          |
| 0063-092001 | 10/389,922 | IP MULTICAST REPLICATION FOR 4K VLANS   | 18-MAR-2003 | 013886/0416  | LAXMAN SHANKAR, ANAND ANUPAM                             |
| 0068-093001 | 10/632,807 | ENTERPRISE WIRELESS LAN SWITCHING SYSTEM  | 04-AUG-2003 | 014369/0001  | KAR-WING EDWARD LOR, RICHARD MARTIN, ALARABI OMAR HASSEN |
| 0063-093002 | 12/153,679 | ENTERPRISE WIRELESS LAN SWITCHING SYSTEM  | 22-MAY-2008 | 014369/0001  | KAR-WING EDWARD LOR, RICHARD MARTIN, ALARABI OMAR HASSEN |

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| 0063-094001 | 10/317,170 | PROGRAMMABLE PACKET FIELD REPLACEMENT ACTION BASED ON RANGE TECHNIQUE  | 12-DEC-2002 | 013571/0151  | SANDEEP RELAN   |
| 0063-095002 | 11/907,059 | FASTPATH IMPLEMENTATION FOR A DOUBLE TAGGING LOOPBACK ENGINE   | 09-OCT-2007 | 013742/0920  | LAXMAN SHANKAR, SHEKHAR AMBE  |
| 0063-096001 | 08/114,958 | APPARATUS AND METHOD FOR SYNTHESIS OF SIGNALS WITH PROGRAMMABLE PERIODS  | 31-AUG-1993 | (ASSINGMENT 1-006765/0268)   | ALISTAIR D. BLACK, THOMAS M. TOBIN  |
| 0063-097002 | 10/916,597 | APPARATUS AND METHOD FOR UNILATERAL TOPOLOGY DISCOVERY IN NETWORK MANAGEMENT   | 12-AUG-2004 | (ASSINGMENT 2-008239/0785)<br>(ASSIGNMENT: 1-1010614/0119)<br>(ASSIGNMENT:2-013609/0288) | KIM K. BANKER, CHRISTOPHER ALAN DEL SIGNORE, GAVIN BOWLBY, RICHARD KARL FELDMAN ET AL |
| 0063-098002 | 10/345,707 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 15-JAN-2003 | (ASSIGNMENT:3-013609/0381)<br>(ASSIGNMENT:1-010028/0727)<br>(ASSIGNMENT: 2-013609/0300)  | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098003 | 10/348,642 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COSE | 21-JAN-2003 | (ASSIGNMENT:1-010028/0727)<br>(ASSIGNMENT:2-013609/0300)                                 | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098004 | 10/349,377 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 21-JAN-2003 | (ASSIGNMENT:1-010028/0727)<br>(ASSIGNMENT:2-013609/0300)                                 | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098004 | 10/349,739 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 21-JAN-2003 | (ASSIGNMENT:1-010028/0727)<br>(ASSIGNMENT:2-013609/0300)                                 | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098006 | 10/348,721 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 21-JAN-2003 | (ASSIGNMENT: 1-010028/0727)<br>(ASSIGNMENT: 2-013609/0300)                               | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098007 | 10/348,997 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 21-JAN-2003 | (ASSIGNMENT: 1-010028/0727)<br>(ASSIGNMENT: 2-013609/0300)                               | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098008 | 10/348,620 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 21-JAN-2003 | (ASSIGNMENT: 1-010028/0727)<br>(ASSIGNMENT: 2-013609/0300)                               | ALISTAIR D. BLACK, KURT CHAN  |
| 0063-098009 | 12/149,373 | FIBRE CHANNEL ARBITRATED LOOP BUFFERLESS SWITCH CIRCUITRY TO INCREASE BANDWIDTH WITHOUT SIGNIFICANT INCREASE IN COST | 30-APR-2008 | (ASSIGNMENT: 1-010028/0727)<br>(ASSIGNMENT: 2-013609/0300)                               | ALISTAIR D. BLACK, KURT CHAN  |

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| 0063-099002 | 10/684,873 | DIGITAL SUBCHANNEL<br>TRANSCIVER FOR TRANSMITTING<br>DATA                                  | 15-OCT-2003 | (ASSIGNMENT: 1-<br>010614/0132)<br><br>(ASSIGNMENT: 2-<br>013609/0378)               | RICHARD KARL FELDMAN,<br>FARIVAR FARZANEH, MICHAEL<br>TIMOTHY KAUFFMAN |
| 0063-100003 | 11/505,816 | SWITCH ASSISTED FRAME<br>ALIASING FOR STORAGE<br>VIRTUALIZATION                            | 18-AUG-2006 | (ASSIGNMENT:1-<br>012149/0425)<br><br>(ASSIGNMENT: 2-<br>013609/0464)<br>015514/0074 | LANI WILLIAM BREWER, JOHN<br>GIFFORD LOGAN<br><br>JEFF DULL            |
| 0063-101001 | 10/874,551 | FAST FILTERING PROCESSOR FOR<br>A HIGHLY INTEGRATED NETWORK<br>DEVICE                      | 24-JUN-2004 | (ASSIGNMENT: 1-<br>015512/0163)<br><br>(ASSIGNMENT: 2-<br>017008/0264)               | SONG-HUO YU, YIH-CHUAN S.<br>CHEN, JEFF DULL                           |
| 0063-102001 | 10/874,574 | EQUAL AND WEIGHTED COS<br>MULTIPASS LOAD BALANCING IN A<br>NETWORK DEVICE                  | 24-JUN-2004 | 015078/0378  | ERIK ANDERSEN  |
| 0063-103001 | 10/795,282 | WEIGHTED FAIR QUEUE<br>IMPLEMENTATION FOR MEMORY<br>MANAGEMENT UNIT OF A<br>NETWORK DEVICE | 09-MAR-2004 | 015100/0626  | JIMMY S. WONG  |
| 0063-104001 | 10/800,731 | DATAGRAM REPLICATION IN<br>INTERNET PROTOCOL MULTICAS<br>SWITCHING IN A NETWORK DEVICE     | 16-MAR-2004 | (ASSIGNMENT:1-<br>015514/0684)<br><br>(ASSIGNMENT: 2-<br>016467/0299)                | YIH-CHUAN S. CHEN, JEFF DULL<br><br>SHRJIE TZENG, CHIUNG-CHI LIN       |
| 0063-105001 | 10/874,550 | SINGLE AND DOUBLE TAGGING<br>SCHEME FOR PACKET<br>PROCESSING                               | 24-JUN-2004 | 015009/0415  | KARAGADA RAMARAO KISHORE,<br>CHIEN-HSIEN WU                            |
| 0063-106001 | 10/780,853 | METHOD AND APPARATUS FRO<br>MULTI-CHIP ARL<br>SYNCHRONIZATION<br>TITLE NOT MATCHING        | 19-FEB-2004 | 015199/0767  | K.R. KISHORE, MOHAN<br>KALKUNTE, CHIEN-HSIEN WU                        |
| 0063-107001 | 10/819,980 | IPMC REPLICATION   | 08-APR-2004 | 015199/0791  | KARAGADA RAMARAO KISHORE,<br>CHIEN-HSIEN WU                            |
| 0063-108001 | 10/825,654 | FLOW CONTROL AND CONGESTION<br>CONTROL IN XGS  | 16-APR-2004 | 015225/0425  | MOHAN KALKUNTE, SRINIVAS<br>SAMPATH, KARAGADA<br>RAMARAO KISHORE       |
| 0063-109001 | 10/819,979 | DYNAMICALLY SHARED MEMORY<br>IN BCM5695  | 08-APR-2004 | 014883/0167  | CHIEN-HSIEN WU   |
| 0063-110001 | 10/825,656 | ECMP IN XGS  | 16-APR-2004 |  |  |
| 0063-111001 | 10/753,560 | SATURATED PACKET AGING<br>MECHANISM  | 09-JAN-2004 |  |  |

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| 0063-112001 | 10/756,515 | ADAPTIVE FLOW CONTROL  | 14-JAN-2004 | 014895/0759 | JIANN-JYH (JAMES) LAY   |
| 0063-112002 | 12/222,649 | ADAPTIVE FLOW CONTROL  | 13-AUG-2008 | 014895/0759 | JIANN-JYH (JAMES) LAY   |
| 0063-113001 | 10/750,961 | SRAM SELF-ADAPTIVE<br>REDUNDANCY CHOICE LOGIC  | 05-JAN-2004 | 014868/0213 | JIANN-JYH (JAMES) LAY   |
| 0063-114001 | 10/716,529 | LINKING LIST QUEUE<br>MANAGEMENT   | 20-NOV-2003 | 014730/0595 | CHENG-LIANG (ANDREW) HOU  |
| 0063-115001 | 10/694,732 | SEGMENTED RATE CONTROL   | 29-OCT-2003 | 014648/0370 | CHENG-LIANG HOU   |
| 0063-116001 | 10/777,642 | THE EFFECTIVE IMPLEMENTATION<br>FOR THE EGRESS CLOCK FOR<br>RGMII  | 13-FEB-2004 | 014988/0254 | JOHNSON YEN   |
| 0063-117001 | 10/845,360 | METHOD OF GLITCH FREE<br>CONTROL OF DDL  | 14-MAY-2004 | 015331/0391 | YONG H. JIANG   |
| 0063-117002 | 11/511,309 | METHOD OF GLITCH FREE<br>CONTROL OF DDL  | 29-AUG-2006 | 015331/0391 | YONG H. JIANG   |
| 0063-118001 | 10/845,356 | NUMERIC AVERAGING CONTROL<br>SYSTEM IN A DDL-DL DESIGN   | 14-MAY-2004 | 015319/0787 | YONG H. JIANG   |
| 0063-119001 | 10/985,031 | MOBID REMAPPING AND PORT<br>SUBSTITUTION   | 10-NOV-2004 | 016247/0411 | KEVIN CAMERON, GURUMURTHY<br>V.S. YELESWARAPU, MOHAN<br>KALKUNTE, SRINIVAS SAMPATH<br>ET AL |
| 0063-20001  | 10/811,126 | ELASTICITY DATA BUFFER FOR<br>STREAMING DATA   | 14-MAY-2007 | 015158/0287 | ANDREW CASTELLANO,<br>PINGHUA PETER YANG  |
| 0063-120002 | 11/798,467 | ELASTICITY DATA BUFFER FOR<br>STREAMING DATA   | 14-MAY-2007 | 015158/0287 | ANDREW CASTELLANO,<br>PINGHUA PETER YANG  |
| 0063-121001 | 10/877,975 | SYSTEM AND METHOD FOR<br>SIMPLIFYING ANALOG<br>PROCESSING IN A TRANSMITTER<br>INCORPORATING A<br>RANDOMIZATION CIRCUIT | 29-JUN-2004 | 015525/0280 | MENG-AN PAN   |

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| 0063-122003 | 11/980,463 | A CMOS-BASED RECEIVER FOR COMMUNICATIONS APPLICATIONS   | 31-OCT-2007 | 015273/0249  | JANICE CHIU, HOOMAN DARABI                                       |
| 0063-123001 | 10/985,033 | FIELD PROCESSOR (FP)  | 10-NOV-2004 | (ASSIGNMENT: 1-016243/0384)<br>(ASSIGNMENT: 2-017291/0019) | ERIC A. BADEN, MOHAN KALKUNTE, JOHN J. DULL, VENKATESHWAR BUDUMA |
| 0063-124001 | 10/806,139 | CIRCUIT AND METHOD FOR CONTROLLING GAIN IN AN AMPLIFIER   | 23-MAR-2004 | 015126/0788  | JANICE CHIU  |
| 0063-125001 | 10/820,812 | AN INSENSITIVE TO PROCESS AND POWER VARIATION RECTIFIER FOR WRSSI CIRCUIT                               | 09-APR-2004 | 015195/0507  | JANICE CHIU  |
| 0063-12600  | 10/806,140 | AMPLIFIERS AND AMPLIFYING METHODS FOR USE IN TELECOMMUNICATION DEVICES                                  | 23-MAR-2004 | 015126/0839  | JANICE CHIU  |
| 0063-127001 | 10/776,531 | CHIP ID BASED GIGA TRUNKING TO MAKE 48+4 SYSTEM BETTER PERFORMANCE                                      | 12-FEB-2004 | 014987/0060  | SHRJIE TZENG   |
| 0063-128001 | 10/814,225 | INDIVIDUALLY PROGRAMMABLE MOST SIGNIFICANT BITS OF VLAN ID  | 01-APR-2004 | 015159/0242  | JOHNSON YEN, YI-HSIEN HAO  |
| 0063-129001 | 10/953,366 | STBC WITH MULTIPLE STREAM IN OFDM FOR WLAN AND ERROR METRICS FOR SOFT DECISION WITH CHANNEL INFORMATION | 30-SEP-2004 | 015859/0476  | JOONSUK KIM  |
| 0063-130001 | 10/960,571 | INTERFERENCE CANCELLATION OF STBC WITH MULTIPLE STREAM IN OFDM FOR WLAN                                 | 08-OCT-2004 | 015881/0390  | JOONSUK KIM  |
| 0063-131001 | 11/136,376 | ADAPTIVE CHANNEL WIDTH SENSITIVITY  | 25-MAY-2005 | 016607/0317  | DANIEL THOMAS DAUM   |
| 0063-132001 | 10/986,141 | LINEAR IN-PHASE TRANSMITTER DESIGN  | 12-NOV-2004 | 015985/0096  | MENG-AN PAN  |
| 0063-133001 | 11/013,913 | BIAS TECHNIQUE FOR THE LINEAR IN-PHASE TRANSMITTER  | 17-DEC-2004 | 016103/0404  | MENG-AN PAN  |
| 0063-134001 | 11/252,562 | MIRRORING OF DATA IN A NETWORK DEVICE   | 19-OCT-2005 | 017122/0761  | VENKATESHWAR BUDUMA, CHIEN-HSIEN WU                              |



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| 0063-135001 | 11/260,270 | CUT-THROUGH SWITCHING IN A NETWORK SWITCH                          | 28-OCT-2005 | 017157/0477 | CHIEN-HSIEN WU                 |
| 0063-136001 | 11/272,131 | RATE LIMITING AND MINIMUM AND MAXIMUM SHAPING IN A NETWORK DEVICE  | 14-NOV-2005 | 017231/0242 | BRUCE H. KWAN, CHIEN-HSIEN WU  |
| 0063-137001 | 11/214,989 | GENERAL FLEXIBLE PACKET MODIFICATION ENGINE                        | 31-AUG-2005 | 016946/0474 | ERIC NG, WILLIAM DAI           |
| 0063-138001 | 11/214,990 | FLEXIBLE PACKET MODIFICATION ENGINE FOR A NETWORK DEVICE           | 31-AUG-2005 | 016946/0137 | ERIC NG                        |
| 0063-139001 | 11/078,508 | OF BOOKKEEPING MEMORY IN A SEARCH ENGINE                           | 14-MAR-2005 | 016387/0570 | BRANDON CARL SMITH, JUN CAO    |
| 0063-140001 | 11/078,483 | PRELEARNING OF VALUES WITH LATER ACTIVATION OF VALUES              | 14-MAR-2005 | 016384/0711 | BRANDON CARL SMITH, JUN CAO    |
| 0063-141001 | 11/078,484 | TIMESTAMP METERING AND ROLLOVER PREVENTION                         | 14-MAR-2005 | 016384/0853 | BRANDON CARL SMITH, JUN CAO    |
| 0063-142001 | 11/081,057 | PROGRAMMABLE METERING BEHAVIOR BASED ON TABLE LOOKUP               | 16-MAR-2005 | 016388/0019 | BRANDON CARL SMITH, JUN CAO    |
| 0063-143001 | 11/165,498 | LAYOUT ARCHITECTURE FOR EXPANDABLE NETWORK DEVICE                  | 24-JUN-2005 | 016729/0186 | SONG-HUO YU, DENNIS SUNGIK LEE |
| 0063-144001 | 11/081,644 | POWERFUL AND EXPANDABLE PIPELINE ARCHITECTURE FOR A NETWORK DEVICE | 17-MAR-2005 | 016391/0653 | BRANDON CARL SMITH, JUN CAO    |
| 0063-145001 | 11/084,482 | DYNAMIC TABLE SHARING OF MEMORY SPACE WITHIN A NETWORK DEVICE      | 21-MAR-2005 | 016401/0304 | BRANDON CARL SMITH, JUN CAO    |
| 0063-146001 | 11/341,643 | DYNAMIC FILTER PROCESSOR KEY GENERATION BASED ON PACKET TYPE       | 30-JAN-2006 | 017506/0850 | SONG HUO YU                    |
| 0063-147001 | 11/340,479 | FILTER BASED RANGE CHECK IN A NETWORK DEVICE                       | 27-JAN-2006 | 017516/0563 | SONG HUO YU                    |

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| 0063-148001 | 11/357,189 | PASSING VALUES THROUGH A MEMORY MANAGEMENT UNIT OF A NETWORK DEVICE           | 21-FEB-2006 | 017920/0636 | SONG-HUO YU, WILLIAM DAI, JUN CAO     |
| 0063-149001 | 11/165,495 | TWO-STAGE PARSER FOR A NETWORK DEVICE   | 24-JUN-2005 | 016727/0083 | DENNIS SUNGIK LEE, SONG-HUO YU        |
| 0063-150001 | 11/154,585 | PACKET ID   | 17-JUN-2005 | 016702/0351 | DENNIS SUNGIK LEE, BRANDON CARL SMITH |
| 0063-151001 | 11/154,827 | MULTI-PART PARSING IN A NETWORK DEVICE  | 17-JUN-2005 | 016704/0752 | DENNIS SUNGIK LEE                     |
| 0063-152001 | 11/151,429 | IP CHECKSUM   | 14-JUN-2005 | 016688/0593 | DENNIS SUNGIK LEE, ERIC NG            |
| 0063-153001 | 11/341,650 | INGRESS HANDLING OF DATA IN A NETWORK DEVICE                                  | 30-JAN-2006 | 017522/0048 | SONG HUO YU                           |
| 0063-154001 | 11/340,586 | TABLE SEARCHING TECHNIQUES IN A NETWORK DEVICE                                | 27-JAN-2006 | 017517/0476 | SONG-HUO YU                           |
| 0063-155001 | 11/341,487 | LAYER TWO AND LAYER THREE VIRTUAL PRIVATE NETWORK SUPPORT IN A NETWORK DEVICE | 30-JAN-2006 | 017521/0880 | SONG HUO YU                           |
| 0063-156001 | 11/289,371 | FAST FILTER PROCESSOR METERING AND CHAINING                                   | 30-NOV-2005 | 017310/0078 | MOHAN KALKUNTE, ERIC A. BADEN         |
| 0063-157001 | 11/289,499 | MULTICAST TRUNKING IN A NETWORK DEVICE  | 30-NOV-2005 | 017308/0835 | MOHAN KALKUNTE, VENKATESHWAR BUDUMA   |
| 0063-158001 | 11/063,968 | DDR INTERFACE RECEIVE LOGIC   | 24-FEB-2005 | 016338/0522 | SUDHANSHU JAIN                        |
| 0063-159001 | 11/063,969 | PREDICTION OF OPTIMAL SAMPLING JOINT  | 24-FEB-2005 | 016338/0513 | SUDHANSHU JAIN                        |
| 0063-160001 | 11/090,143 | CPU TRANSMISSION OF UNMODIFIED PACKETS  | 28-MAR-2005 | 016430/0504 | ANUPAM ANAND, JOHN JEFFREY DULL       |

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| 0063-161001 | 11/100,537 | PIPELINE ARCHITECTURE OF A NETWORK DEVICE                                 | 07-APR-2005 | 016459/0420  | ANUPAM ANAND, JOHN JEFFREY DULL, ERIC A. BADEN, MICHAEL J. BOWES                         |
| 0063-162001 | 11/082,975 | A METHOD AND APPARATUS FOR DIRECT MEMORY ACCESS BASED ON CLASS-OF-SERVICE | 18-MAR-2005 | (ASSIGNMENT: 1-017147/0647)                                | VAMSI TATAPUDI, NITHYANANDA MIYAR  |
| 0063-163001 | 11/082,976 | DIRECT-MEMORY ACCESS FOR CONTENT ADDRESSABLE MEMORY                       | 18-MAR-2005 | (ASSIGNMENT: 2-016394/0102)<br>(ASSIGNMENT: 1-016395/0269) | VAMSI TATAPUDI, SHASHI S. MATH   |
| 0063-164001 | 11/090,110 | FORCED BUBBLE INSERTION SCHEME  | 28-MAR-2005 | (ASSIGNMENT: 2-018192/0528)<br>016429/0541                 | ANUPAM ANAND, CHIEN-HSIEN WU, SAMIR K. SANGHANI  |
| 0063-165001 | 11/060,657 | WEIGHTED FAIR QUEUING RELATIVE BANDWIDTH-SHARING                          | 18-FEB-2005 | 016310/0629  | ERIK ANDERSEN  |
| 0063-166001 | 11/060,492 | XQ DYNAMIC SHARING  | 18-FEB-2005 | 016312/0341  | WEITONG CHUANG   |
| 0063-167001 | 11/060,490 | XQ DYNAMIC COLOR THRESHOLD  | 18-FEB-2005 | 016312/0367  | ERIK ANDERSEN  |
| 0063-168001 | 11/063,884 | MEMORY SYSTEM SELF-HEALING  | 23-FEB-2005 | 016338/0073  | ERIK ANDERSEN  |
| 0063-169002 | 11/819,512 | MCU THROTTLE AND ERROR RECOVERY   | 27-JUN-2007 | 016312/0385  | WEITONG CHUANG, ERIK ANDERSEN  |
| 0063-170001 | 11/289,368 | HIGH SPEED TRUNKING IN A NETWORK DEVICE                                   | 30-NOV-2005 | 017304/0166  | MOHAN KALKUNTE   |
| 0063-171001 | 11/289,369 | NETWORK FOR SUPPORTING ADVANCE FEATURES ON LEGACY COMPONENTS              | 30-NOV-2005 | 017278/0393  | MOHAN KALKUNTE, GURUMURTHY YELESWARAPU, PUNEET AGARWAL, SONG-HUO YU ET AL                |
| 0063-172001 | 11/289,368 | MIRRORING IN A NETWORK DEVICE   | 30-NOV-2005 | (ASSIGNMENT: 1-017294/0387)<br>(ASSIGNMENT: 2-017654/0205) | MOHAN KALKUNTE, VENKATESHWAR BUDUMA, PUNEET AGARWAL, GURUMURTHY YELESWARAPU, SONG-HUO YU |
| 0063-173001 | 11/289,370 | VLAN TRANSLATION IN A NETWORK DEVICE                                      | 30-NOV-2005 | 017274/0677  | MOHAN KALKUNTE, VENKATESHWAR BUDUMA, SONG-HUO YU, GURUMURTHY YELESWARAPU                 |

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| 0063-174001 | 11/289,497 | UNICAST TRUNKING IN A NETWORK DEVICE                          | 30-NOV-2005 | 017308/0726 | MOHAN KALKUNTE, JOHN JEFFREY DULL, BRUCE H. KWAN, VENKATESHWAR BUDUMA |
| 0063-175001 | 11/289,687 | POLICY BASED ROUTING USING FAST FILTER PROCESSOR              | 30-NOV-2005 | 017308/0520 | MOHAN KALKUNTE, VENKATESHWAR BUDUMA, ERIC A. BADEN                    |
| 0063-176001 | 11/259,041 | INTELLIGENT FABRIC CONGESTION DETECTION APPARATUS AND METHOD  | 27-OCT-2005 | 017149/0180 | PUNEET AGARWAL, BRUCE H. KWAN   |
| 0063-177001 | 11/259,095 | INTELLIGENT CONGESTION FEEDBACK APPARATUS AND METHOD          | 27-OCT-2005 | 017149/0359 | BRUCE H. KWAN, PUNEET AGARWAL   |
| 0063-178001 | 11/260,232 | SERVICE AWARE FLOW CONTROL                                    | 28-OCT-2005 | 017153/0136 | BRUCE H. KWAN, EUGENE N. OPSASNICK, PUNEET AGARWAL                    |
| 0063-178002 | 11/260,269 | DYNAMIC THRESHOLD MECHANISM AND ERROR MANAGEMENT              | 28-OCT-2005 | 017157/0532 | BRUCE H. KWAN, PUNEET AGARWAL, EUGENE N. OPSASNICK                    |
| 0063-179001 | 11/172,799 | METHOD AND APPARATUS FOR UNIFIED WIRED AND WIRELESS SWITCHING | 05-JUL-2005 | 016754/0821 | PUNEET AGARWAL, YOOK-KHAI CHEOK                                       |
| 0063-180001 | 11/444,373 | COMPACT PACKET OPERATION DEVICE AND METHOD                    | 01-JUN-2006 | 017958/0704 | SHRJIE TZENG  |
| 0063-182001 | 11/099,539 | DYNAMIC CONNECTIVITY DETERMINATION                            | 06-APR-2005 | 016447/0796 | BRIAN BAIRD, DANIEL TALAYCO   |
| 0063-183001 | 11/099,474 | HIGIG AUTOTRUNKING  | 06-APR-2005 | 016455/0377 | BRIAN BAIRD, DANIEL TALAYCO   |
| 0063-184001 | 11/408,064 | GROUP DRIVER  | 21-APR-2006 | 017875/0865 | DANIEL TALAYCO  |
| 0063-185001 | 11/156,700 | USE OF METADATA FOR SEAMLESS UPDATES                          | 21-JUN-2005 | 016715/0003 | CURTIS MCDOWELL   |
| 0063-188001 | 11/429,288 | STACKING INTO BCMX  | 08-MAY-2006 | 017876/0602 | DANIEL TALAYCO, BRIAN BAIRD, ALLAN CHRISTIE                           |

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| 0063-188001 | 11/429,289 | API INTERFACE-MAKING DISPATCH TABLES TO MATCH API ROUTINES TITLE NOT MATCHING | 08-MAY-2006 | 0177877/0566   | DANIEL TALAYCO, BRIAN BAIRD         |
| 0063-189001 | 11/429,287 | ASYNCHRONOUS EVENT NOTIFICATION   | 08-MAY-2006 | 017876/0573  | DANIEL TALAYCO, BRIAN BAIRD         |
| 0063-190001 | 11/200,007 | METHOD FOR COMMUNICATION BETWEEN PROCESSORS                                   | 10-AUG-2005 | 016828/0611  | BRIAN BAIRD, DANIEL TALAYCO         |
| 0063-192001 | 11/497,293 | REQUEST PROCESSING BETWEEN FAILURE WINDOWS                                    | 02-AUG-2006 | 018128/0887  | PETER MICHELS                       |
| 0063-193001 | 11/507,670 | TIME MULTIPLEXING LOGIC IN PHYSICAL DESIGN DOMAIN FOR MULTIPLE INSTANTIATION  | 22-AUG-2006 | 018219/0342  | PETER MICHELS                       |
| 0063-194001 | 11/132,280 | DIGITAL POWER ON RESET CONTROLLER   | 19-MAY-2005 | 016582/0706  | JIUNN-MING JU, CHENG-LIANG HOU      |
| 0063-195001 | 11/504,634 | PACKET ATTRIBUTE BASED PRIORITIZATION   | 16-AUG-2006 | 018185/0022  | PETER MICHELS                       |
| 0063-196001 | 11/330,187 | DYNAMIC PORT FAILOVER   | 12-JAN-2006 | 017449/0472  | ZHENG WANG, PUNEET AGARWAL          |
| 0063-197001 | 11/480,844 | METHOD AND APPARATUS FOR CALCULATING S-FLOW                                   | 06-JUL-2006 | (ASSIGNMENT: 1-018042/0021<br>(ASSIGNMENT: 2-019012/0978 | MOHAN KALKUNTE                      |
| 0063-198001 | 11/189,847 | DYNAMIC ALLOCATION OF AGGREGATE BUFFER  | 27-JUL-2005 | 016823/0452  | KWOK FAI TSANG                      |
| 0063-199001 | 11/285,105 | METHOD AND APPARATUS FOR DYNAMICALLY CONFIGURING A GENERIC PROCESSING MODULE  | 23-NOV-2005 | 017276/0430  | VAMSI M. TATAPUDI, ANIRBAN BANERJEE |
| 0063-20001  | 11/412,861 | A SUPPLY VOLTAGE SELECTOR   | 28-APR-2006 | 017810/0637  | NING LI                             |
| 0063-201001 | 11/452,284 | LOOP DETECTION FOR A NETWORK DEVICE   | 14-JUN-2006 | 017998/0520  | SHRJIE TZENG                        |

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| 0063-202001 | 11/258,124 | DYNAMIC TRANSACTION QUEUE SYSTEM  | 26-OCT-2005 | 017147/0015 | ERIK ANDERSEN, WEITONG CHUANG                     |
| 0063-203001 | 11/396,617 | HIGH SPEED TRANSMISSION PROTOCOL  | 04-APR-2006 | 017715/0132 | WILLIAM DAI                                       |
| 0063-204001 | 11/396,618 | APPARATUS AND METHOD FOR IMPLEMENTING MULTIPLE HIGH SPEED SWITCHING FABRICS IN AN ETHERNET RING TOPOLOGY    | 04-APR-2006 | 017755/0534 | WILLIAM DAI                                       |
| 0063-205001 | 11/396,619 | APPARATUS AND METHOD FOR EXTENDING FUNCTIONS FROM A HIGH END DEVICE TO OTHER DEVICES IN A SWITCHING NETWORK | 04-APR-2006 | 017754/0814 | WILLIAM DAI                                       |
| 0063-206001 | 11/642,554 | HIERARCHICAL QUEUE SHAPING  | 21-DEC-2006 | 018736/0049 | BRUCE H. KWAN, PUNEET AGARWAL, ASAD KHAMISY       |
| 0063-207001 | 11/407,279 | CONTENT AWARE APPARATUS AND METHOD  | 20-APR-2006 | 017795/0641 | ERIC A. BADEN                                     |
| 0063-208001 | 11/410,885 | DIAGNOSTIC MECHANISM FOR LAYER 2 AND LAYER 3 NETWORKS   | 26-APR-2006 | 017808/0146 | ZHENG WANG  |
| 0063-209001 | 11/324,223 | METHOD AND APPARATUS FOR DYNAMICALLY CONFIGURING REGISTERS BY A GENERIC CPU MANAGEMENT INTERFACE            | 04-JAN-2006 | 017438/0140 | VAMSI M. TATAPUDI, SUNDARESAN KUMBAKONAM          |
| 0063-210001 | 11/324,222 | METHOD AND APPARATUS FOR DYNAMICALLY CONFIGURING HARDWARE RESOURCES BY A GENERIC CPU MANAGEMENT INTERFACE   | 04-JAN-2006 | 017438/0147 | VAMSI M. TATAPUDI, ANIRBAN BANERJEE               |
| 0063-211001 | 11/594,743 | PROCESSING OF MULTIPLE CELLS IN A NETWORK DEVICE WITH TWO READS AND TWO WRITES IN ONE CLOCK CYCLE           | 09-NOV-2006 | 018571/0281 | CHIEN-HSIEN WU, YOOK-KHAI CHEOK, EUGENE OPSASNICK |
| 0063-212001 | 11/594,744 | SCHEDULING OF DATA TRANSMISSION WITH MINIMUM AND MAXIMUM SHAPING OF FLOWS IN A NETWORK DEVICE               | 09-NOV-2006 | 018571/0345 | CHIEN-HSIEN WU, BRUCE KWAN, PHILIP CHEN           |
| 0063-213001 | 11/598,116 | INTERLEAVED PROCESSING OF DROPPED PACKETS IN A NETWORK DEVICE   | 13-NOV-2006 | 018569/0274 | EUGENE OPSASNICK                                  |
| 0063-214001 | 11/583,155 | CELL COPY COUNT HAZARD DETECTION  | 19-OCT-2006 | 018445/0458 | VAMSI M. TATAPUDI, CHIEN-HSIEN WU, PHILIP CHEN    |

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| 0063-215001 | 11/589,164 | FIELD PROGRAMMABLE MEMORY<br>REPAIR FOR EPROM   | 30-OCT-2006 | 018483/0436 | QING LIN, KIRAN DASOJU                       |
| 0063-216001 | 11/592,258 | MULTIPLE MODE CAM'S; DOUBLE<br>AND TRIPLE WIDE CAM'S  | 03-NOV-2006 | 018511/0527 | MICHAEL H. LAU                               |
| 0063-217001 | 11/593,103 | CACHE-BASED CELL FREE<br>ADDRESS POOL   | 06-NOV-2006 | 018522/0492 | VAMSI M.TATAPUDI CHIEN-<br>HSIEN WU YUAN LU, |
| 0063-218001 | 11/595,978 | BUFFER MANAGEMENT AND FLOW<br>CONTROL MECHANISM INCLUDING<br>PACKET-BASED DYNAMIC<br>THRESHOLDING | 13-NOV-2006 | 018600/0100 | EUGENE OPSASNICK                             |